
LD 53: 2.0 Mb/s Remote Peripheral Equipment Diagnostic

Load 53 is used to maintain 2.0 Mb/s Remote Peripheral Equipment.

Program 53 is not supported on Option 11 systems.

LD 53 Daily Routines

This program functions according to the type of loading. When loaded as part of the daily routines, the program:

- tests the connection memory of network circuits on idle loops
- tests the continuity of speech paths to the remote site
- unspares a loop if it passes the tests, is autospared, and the BGTH threshold is not zero
- resets alarm counters to zero
- performs loop around tests on local and remote ends of spare remote peripheral equipment (RPE) loops
- tests idle timeslots in network circuits
- tests continuity of the signaling paths

How to use LD 53

The 2.0 Mb/s Remote Peripheral Equipment Diagnostic (RPM) is loaded manually to:

- enable, disable, and check the status of network loops
- perform loop around tests on local and remote ends of an RPE loop

- clear minor alarms and the maintenance display
 - print the counter values (alarm occurrences) for RPE loops
 - test the idle timeslots in network circuits
 - test the continuity of the speech path to the remote site
 - reset the counter values to 0
 - test local and remote RPE Controller (RPC) card
 - switch spare loops into and out-of-service
 - prints the status of RPE groups/loops and their path switch
 - test continuity of signaling paths
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Basic commands

CDSP	Clear maintenance display on active CPU to 00 or blank
CMIN ALL	Clear minor alarm indication on all attendant consoles
CMIN c	Clear minor alarm indicator for customer c
DISI loop	Disable loop once it becomes idle
DISL loop	Disable loop
END	Terminate the active command
ENLL loop	Enable loop
LBKL loop	Close local loop back relay
LBKR loop	Force remote loop back relay
LCNT ALL	List the alarm occurrence counter values for all loops
LCNT loop	Print alarm occurrence counter values on loop
LDIS	List disabled RPE loops in the system
LFLT loop	List speech timeslots that failed loop test
LOCL loop	Perform local loop around test on loop
LOOP loop	Test idle timeslots and speech path continuity on loop
LRPE	List the remote loops in the system
OLBL loop	Remove local loop back on loop
OLBR loop	Remove remote loop back on loop
RCNT ALL	Reset the alarm occurrence counter values for all loops
RCNT loop	Reset the alarm counters for loop
REML loop	Perform remote loop around test on loop
STAT	Get number of busy channels with DISI active
STAT loop	Get status of loop
STAT PSW g	Get status of path switch of RPE group g
STAT RPG g	Get status of RPE group g
SWSP loop	Spare loop
TRPL loop	Test both local and remote end of the RPE loop
TSTL loop	Test local RPE controller of loop
TSTR loop	Test remote RPE controller of loop
UNSP loop	Unspare loop

Alphabetical list of commands

Command	Description	Pack/Rel
CDSP	Clear maintenance display on active CPU to 00 or blank.	basic-1
CMIN ALL	Clear minor alarm indication on all attendant consoles.	basic-1
CMIN c	Clear minor alarm indicator for customer c.	basic-1
DISI loop	Disable loop once it becomes idle. The number of channels still busy on the loop may be checked using the STAT command.	basic-1
DISL loop	Disable loop. Any calls on loop are disconnected.	basic-1
END	Terminate the active command. If no command is in progress, the active DISI command is cancelled.	basic-1
ENLL loop	Enable loop. If the operation is successful, OK is output. This command performs test only on the local equipment. A loop test should be performed to ensure the remote end is enabled.	basic-1
LBKL loop	Close local loop back relay. The loop must be disabled before the command is given. The relay remains closed until OLBL command is entered. This command requires approximately 30 seconds to complete.	basic-1
LBKR loop	Force remote loop-relay. The loop must be disabled before the command is given. Similar to LBKL. The relay remains closed until the OLBR command is entered. This command requires approximately 30 seconds to complete.	basic-1
LCNT ALL	List the alarm occurrence counter values for all loops.	basic-6

LCNT loop	Print alarm occurrence counter values on specified loop. Alarm types are: 1. ALM1 = Customer defined alarm 1 2. ALM2 = Customer defined alarm 2 3. ALM3 = Customer defined alarm 3 4. BGTH = Unsparring attempts by background 5. CCLK = Loss of carrier clock at local site 6. FAEL = Frame alignment error rate exceeded at local site 7. FAER = Frame alignment error rate exceeded at remote site 8. LFAL = Loss of frame alignment at local site 9. LFAR = Loss of frame alignment at remote site 10. LIMG = Local incoming message buffer overflow (RPC) 11. LINT = Local RPC initialization problem 12. LOMG = Local outgoing message buffer overflow (RPC) 13. PCML = PCM error rate exceeded at the local site 14. PCMR = PCM error rate exceeded at remote site 15. PSWD = Path switch missing or disabled 16. PSWF = Path switch status failure 17. RPF = Remote RPC failure 18. SSDF = SSD failed on a line card	basic-1
LDIS	List disabled RPE loops in the system.	basic-1
LFLT loop	List speech timeslots that failed loop test. If no channels failed or no test has been performed, response is NONE.	basic-1
LOCL loop	Perform local loop around test on loop. The command tests the local equipment and continuity of loop. If all tests pass, response is OK. This command requires approximately 2.5 min to complete. If test fails, local loop back relay remains closed; enter OLBL to open the relay.	basic-1
LOOP loop	Test idle timeslots and speech path continuity. This command tests idle timeslots of connection memory or network loop and the continuity of speech path to remote site. Faulty units will be disabled. If all pass test, response is "OK". This command does not test signaling to PE cards.	basic-1

LRPE	List the remote loops in the system.	basic-1
OLBL loop	Remove local loop back on loop.	basic-1
OLBR loop	Remove remote loop back on loop.	basic-1
RCNT ALL	Reset the alarm occurrence counter values for all loops.	basic-6
RCNT loop	Reset the alarm counters for loop.	basic-1
REML loop	Perform remote loop around test on loop. The command tests the local equipment and continuity of loop. If the test passes, response is OK. This command requires approximately 2.5 min to complete. If test fails, the remote Carrier Interface (CI) card remains in loop back mode. Use the OLBR command to disable loop back.	basic-1
STAT	Get number of busy channels with DISI active. If a DISI request is not active, an error message is output.	basic-1
STAT loop	Get status of loop. Responses are: 1. <code>x BUSY y DSBL</code> = number of busy/disabled speech channels on loop. 2. <code>x NWK MEM FLTS</code> = number of speech channels disabled due to fault in connection memory of card. 3. <code>CTYF: 11 12 1n</code> = loop could not receive speech from specified loops during background diagnostic. 4. <code>DSBL:</code> = loop is disabled, responding or not responding (<code>REM/LOC LPBK</code>). <code>LOC/REM LPBK</code> indicates that local or remote loop back relay is closed.	basic-1
STAT PSW g	Get status of path switch of RPE group g. Responses are: 1. <code>x SPARED</code> = PSW for group g is in use, x is the spared loop 2. <code>IDLE</code> = no loop spared 3. <code>UNEQ/DSBL</code> = path switch is unequipped or disabled	basic-1

STAT RPG g	Get status of RPE group g. Responses are:	basic-1
	1. x: DSBL THRS OVFL = loop x has been disabled and a threshold level for the loop has been exceeded. 2. x: DSBL, REM/LOC LPBK = loop x is disabled and has been set up for REMote/LOCal loop back. 3. x: ENBL/DSBL = loop x is enabled/disabled 4. x: SPRD-ENBL/DSBL = loop x has been replaced with a spare and is enabled/disabled 5. x: SPR IN USE, ENBL/DSBL = loop x is the spare loop in use and is enabled/disabled 6. x: AUTO SPARED AT: date hour-ENBL/DSBL = loop x is auto spared at date and hour and is enabled/disabled 7. PSW: IDLE/ENBL/DSBL = state of the patch switch for the RPE group. 8. PSW: SPRD-x = patch switch for the RPE group is spared from loop x	
SWSP loop	Spare loop.	basic-1
TRPL loop	Test both local and remote end of the RPE loop. Loop must be disabled first. This command may require minutes to complete. Messages appear as the various tests progress.	basic-6
TSTL loop	Test local RPE controller of loop. Loop must be disabled prior to entering this command. Use DISI/DISL command to disable loop.	basic-1
TSTR loop	Test remote RPE controller of loop. Loop must be disabled prior to entering the command. Use DISI/DISL command to disable loop.	basic-1
UNSP loop	Unspare loop. The spare loop must be disabled before entering this command. Use DISI/DISL command to disable loop.	basic-6
